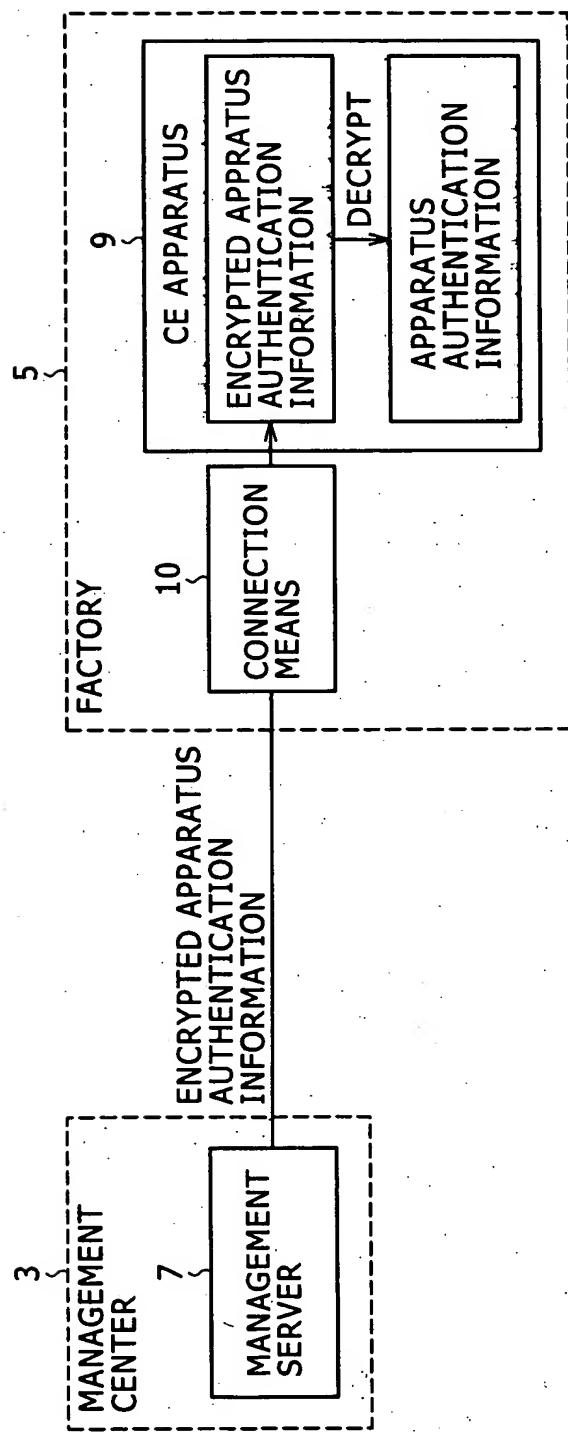
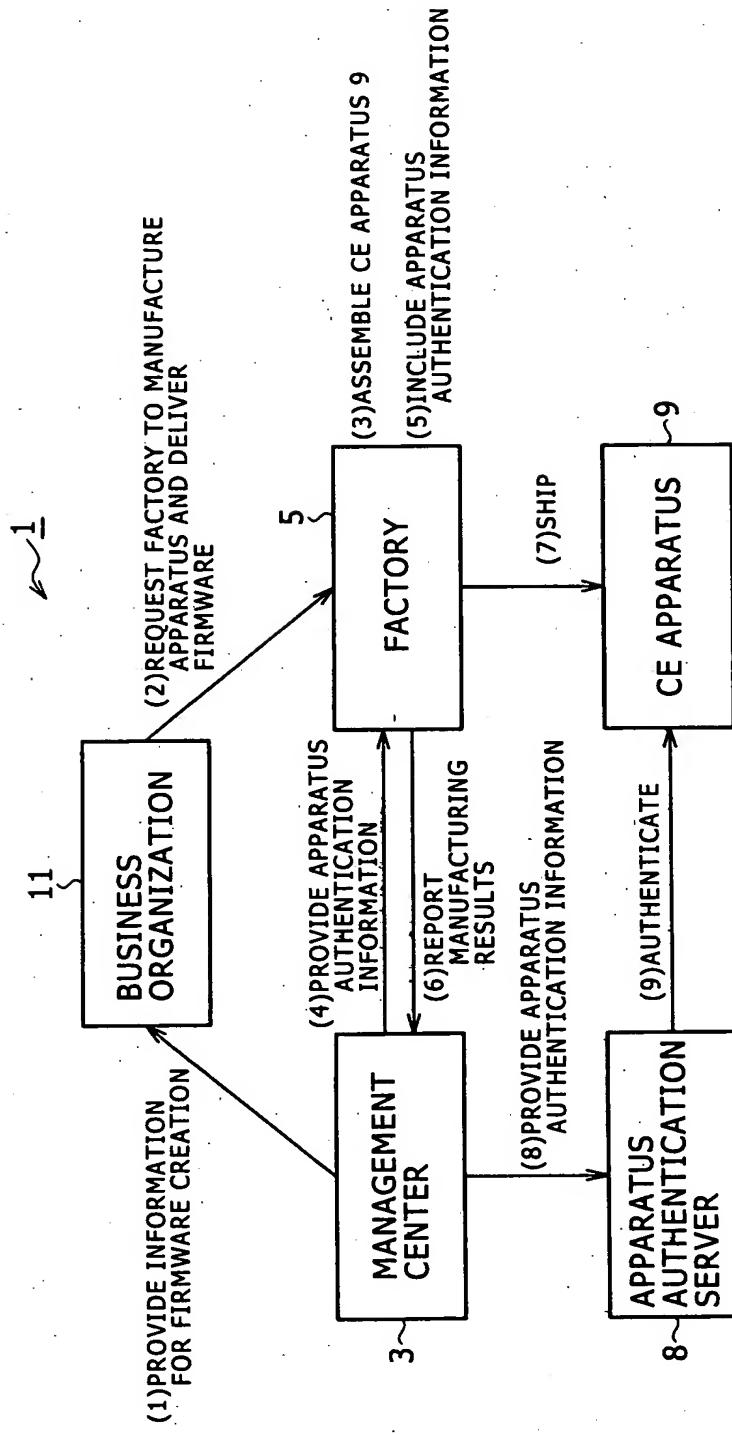


FIG. 1



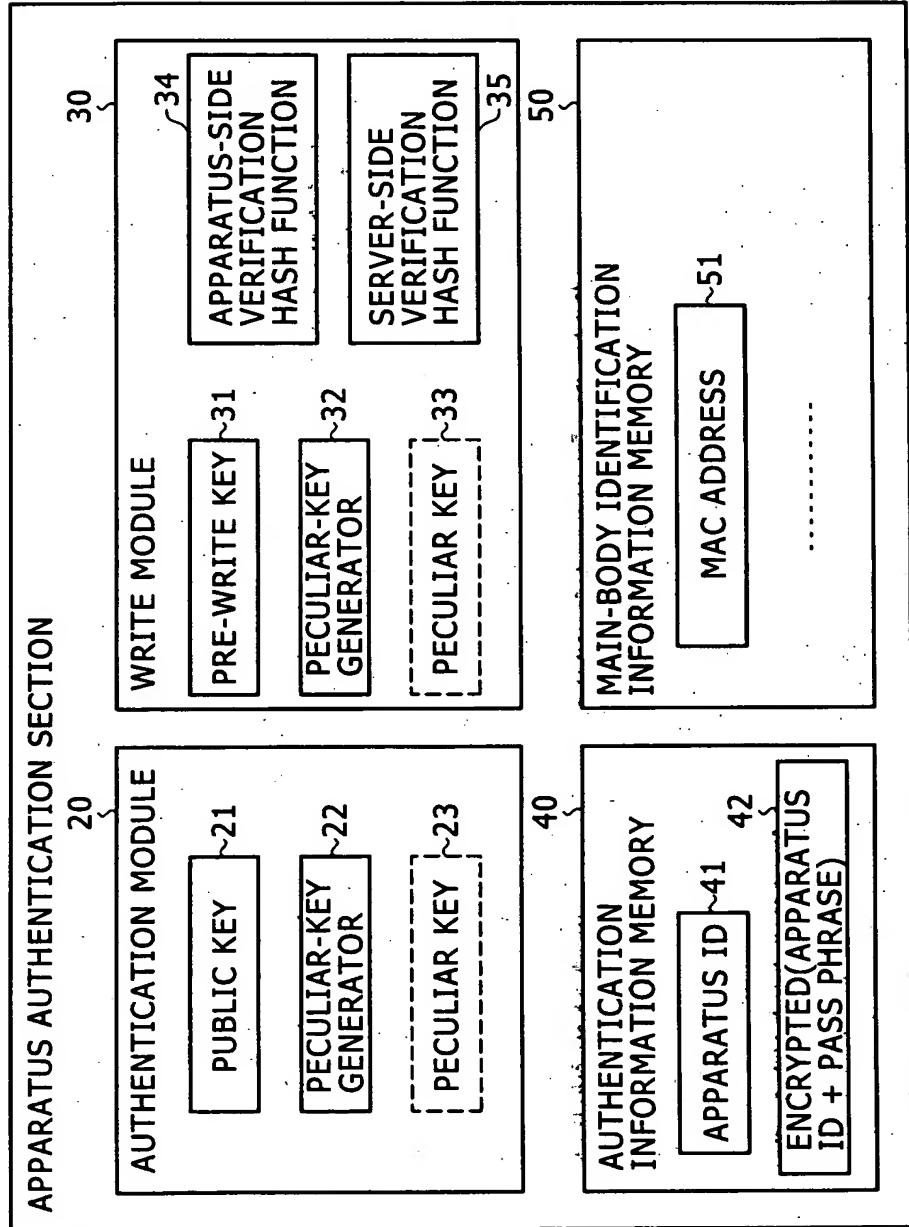
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FIG. 2



# FIG. 3

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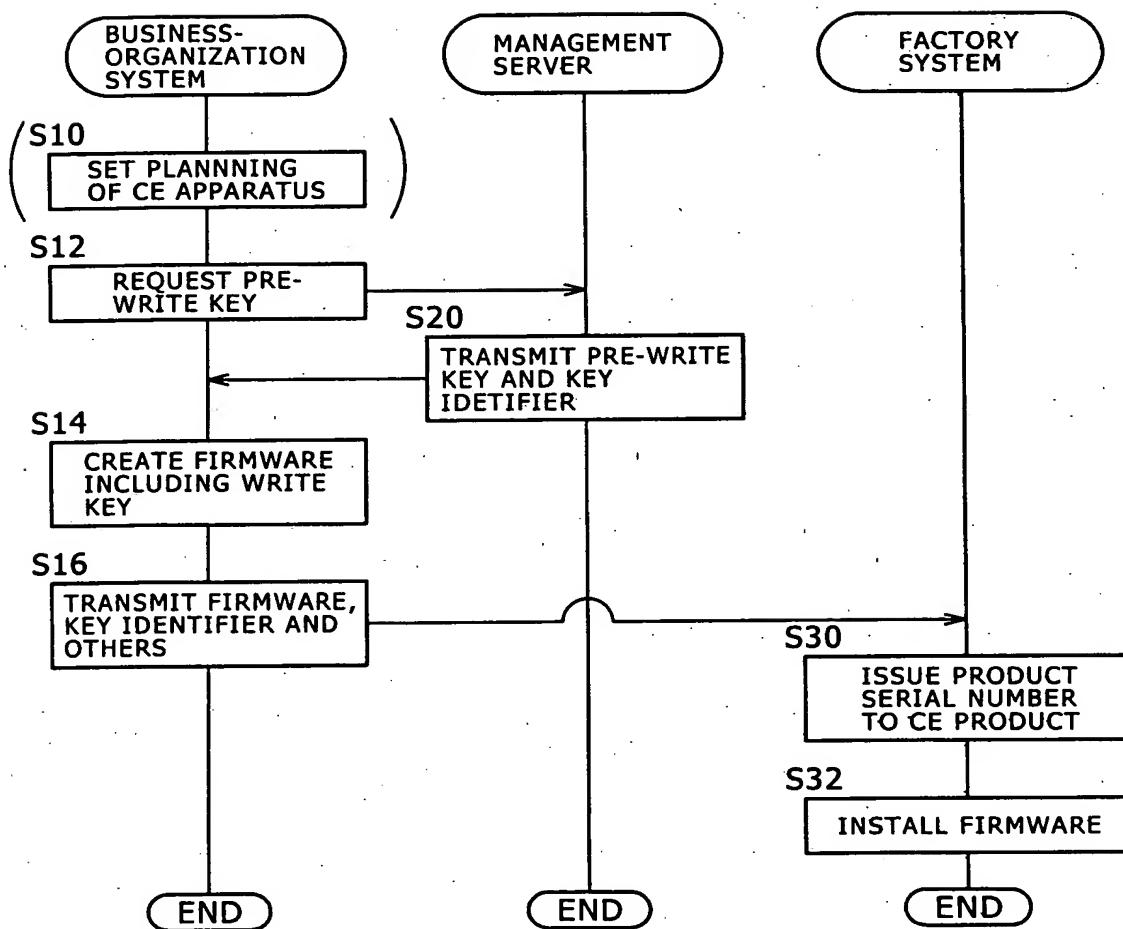


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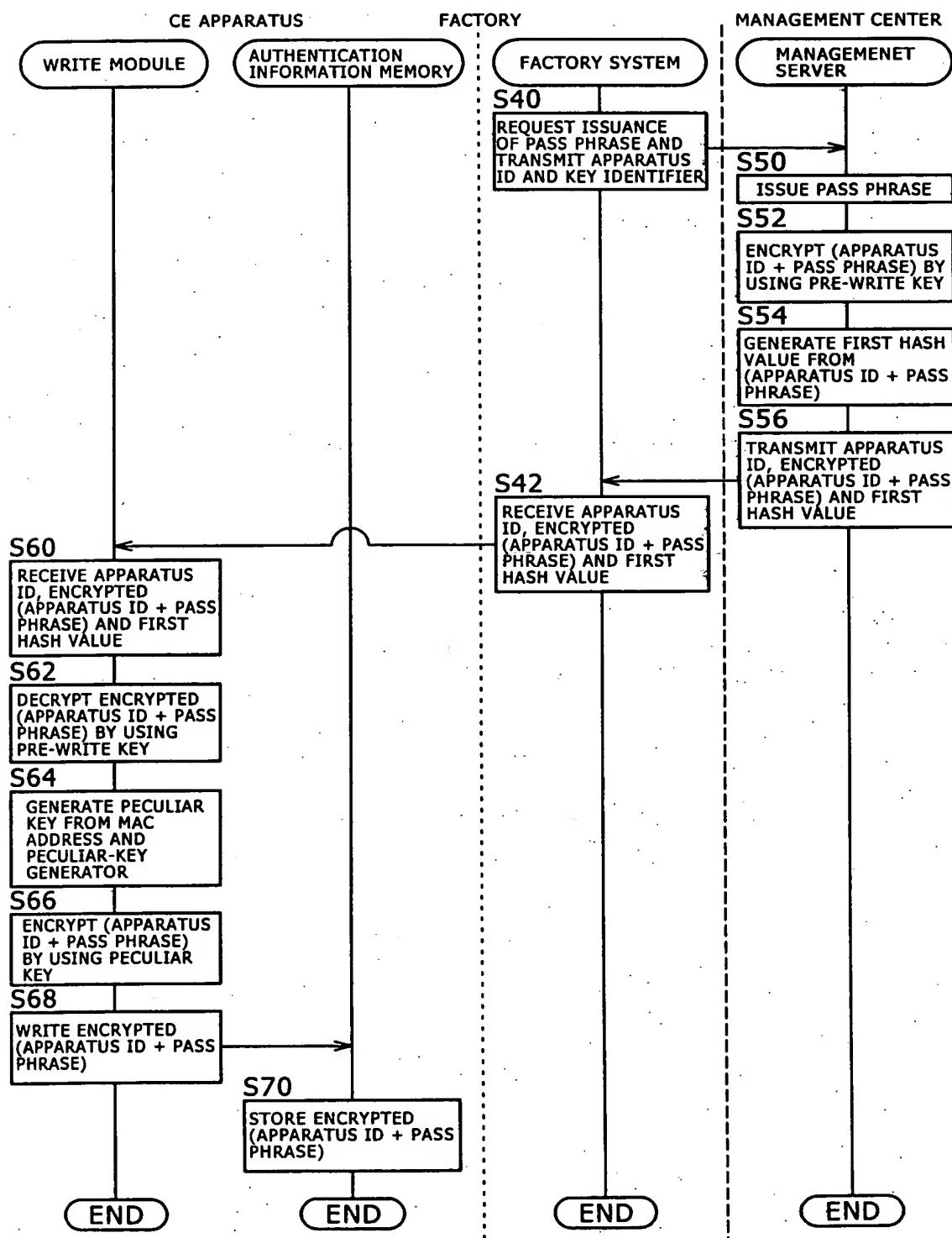
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FIG. 4



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## FIG. 5



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## FIG. 6

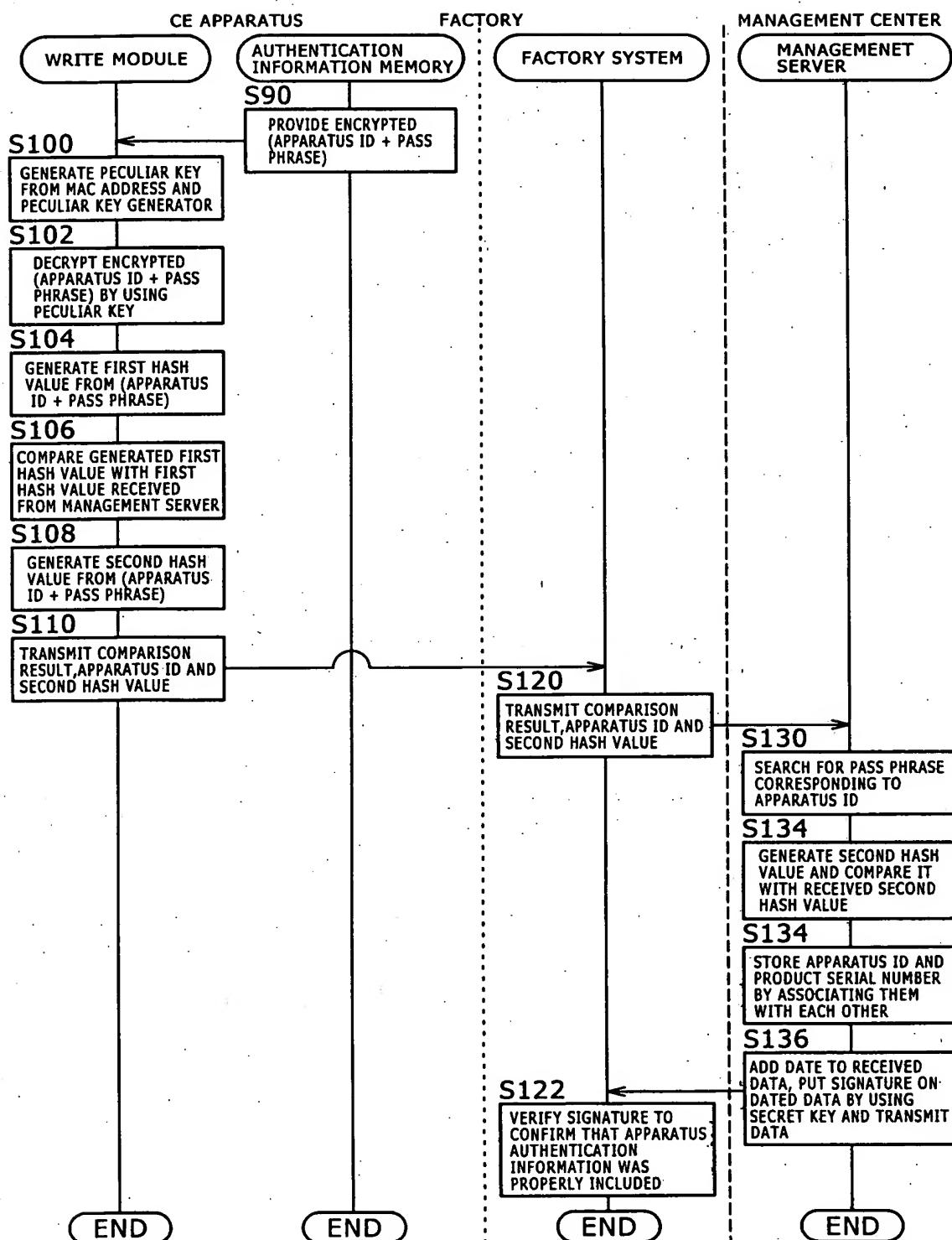
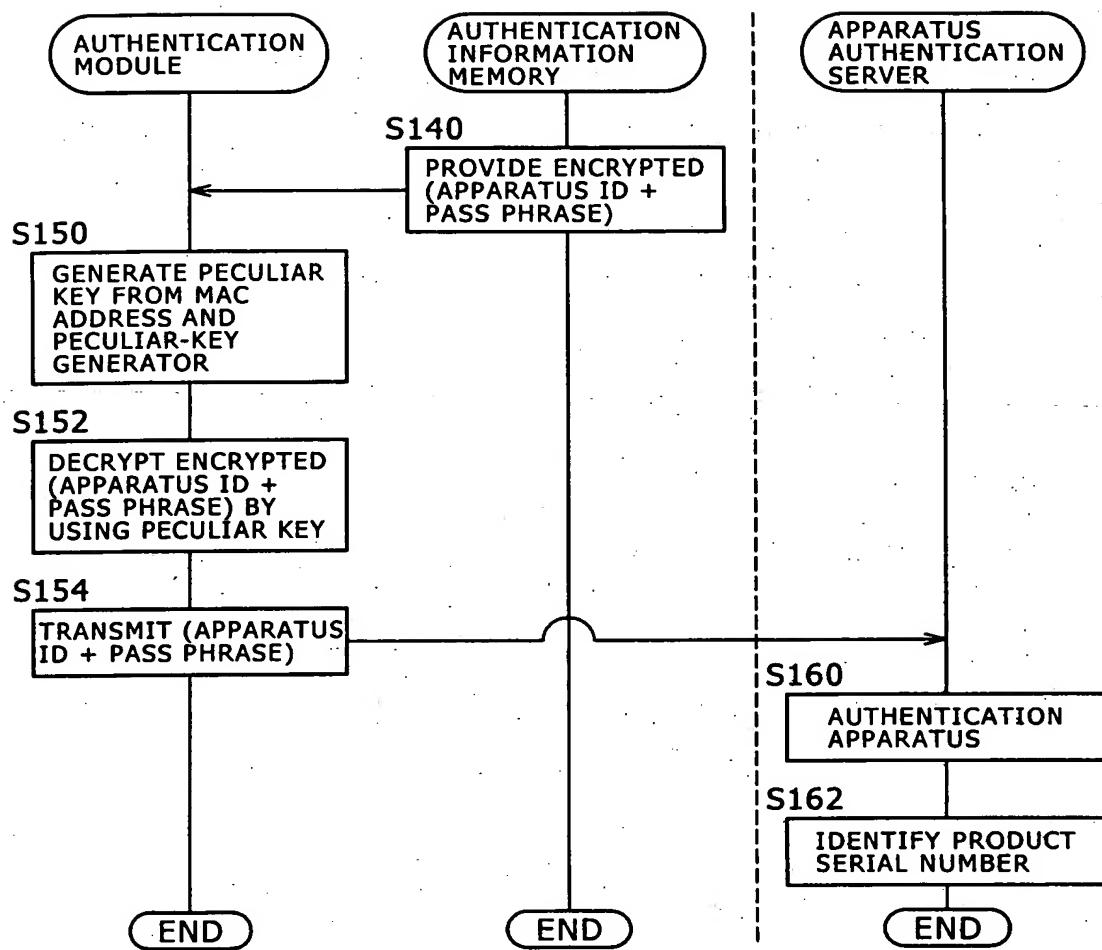


FIG. 7



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## FIG. 8

## FACTORY SYSTEM

PRODUCT CODE A	KEY IDENTIFIER 1
PRODUCT CODE B	KEY IDENTIFIER 2
PRODUCT CODE C	KEY IDENTIFIER 3
....	....

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## MANAGEMENT SERVER

KEY IDENTIFIER 1	PRE-WRITE KEY 1
KEY IDENTIFIER 2	PRE-WRITE KEY 2
KEY IDENTIFIER 3	PRE-WRITE KEY 3
....	....

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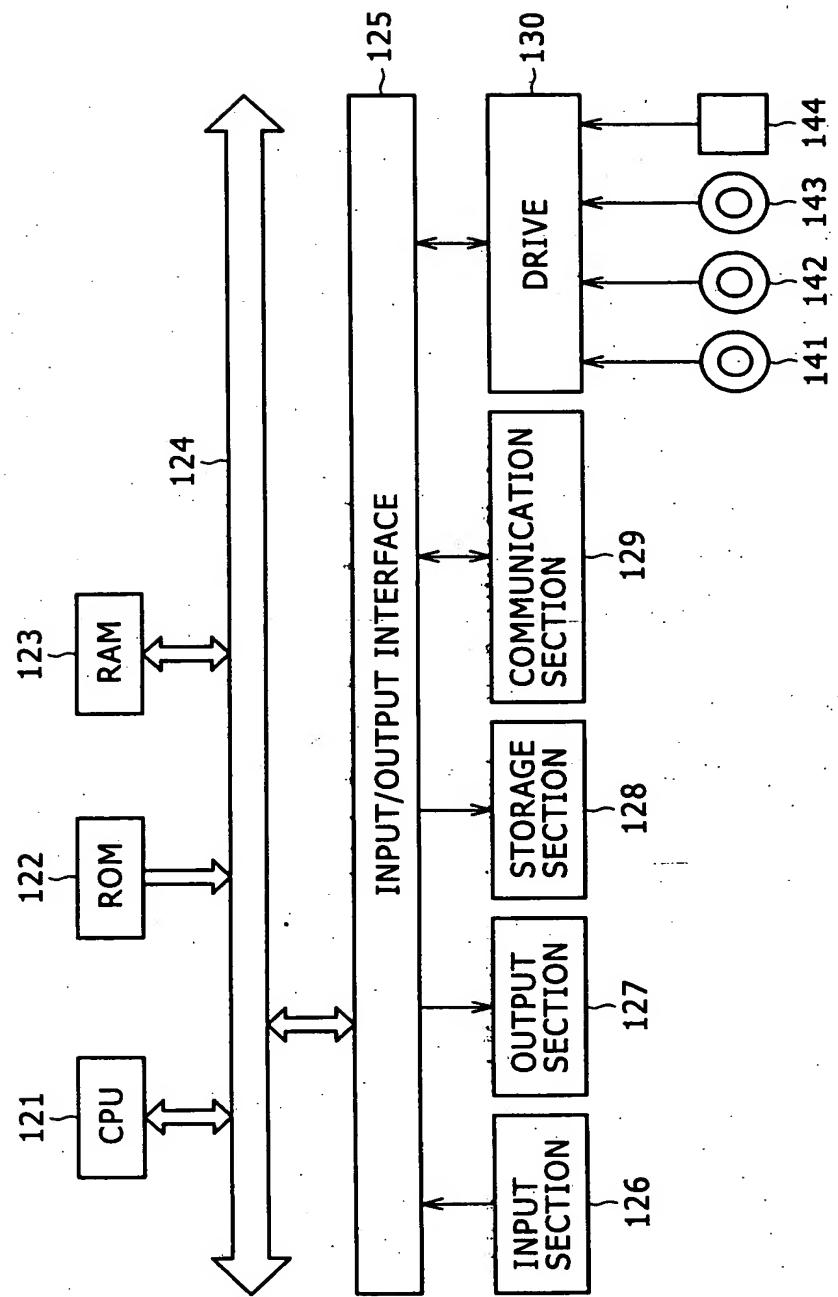
APPARATUS ID 1	PASS PHRASE 1	KEY IDENTIFIER 1
APPARATUS ID 2	PASS PHRASE 2	KEY IDENTIFIER 2
APPARATUS ID 3	PASS PHRASE 3	KEY IDENTIFIER 3
....	....	....

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APPARATUS ID 1	PASS PHRASE 1	PRODUCT SERIAL NUMBER 1
APPARATUS ID 2	PASS PHRASE 2	PRODUCT SERIAL NUMBER 2
APPARATUS ID 3	PASS PHRASE 3	PRODUCT SERIAL NUMBER 3
....	....	....

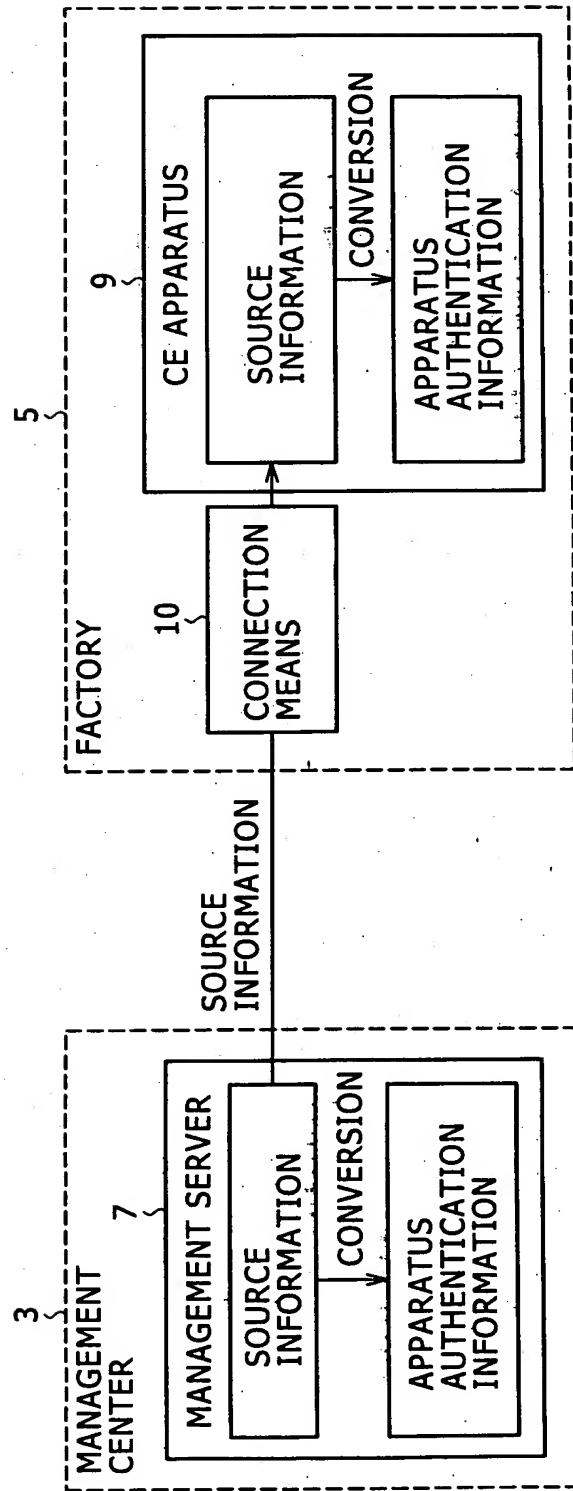
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FIG. 9



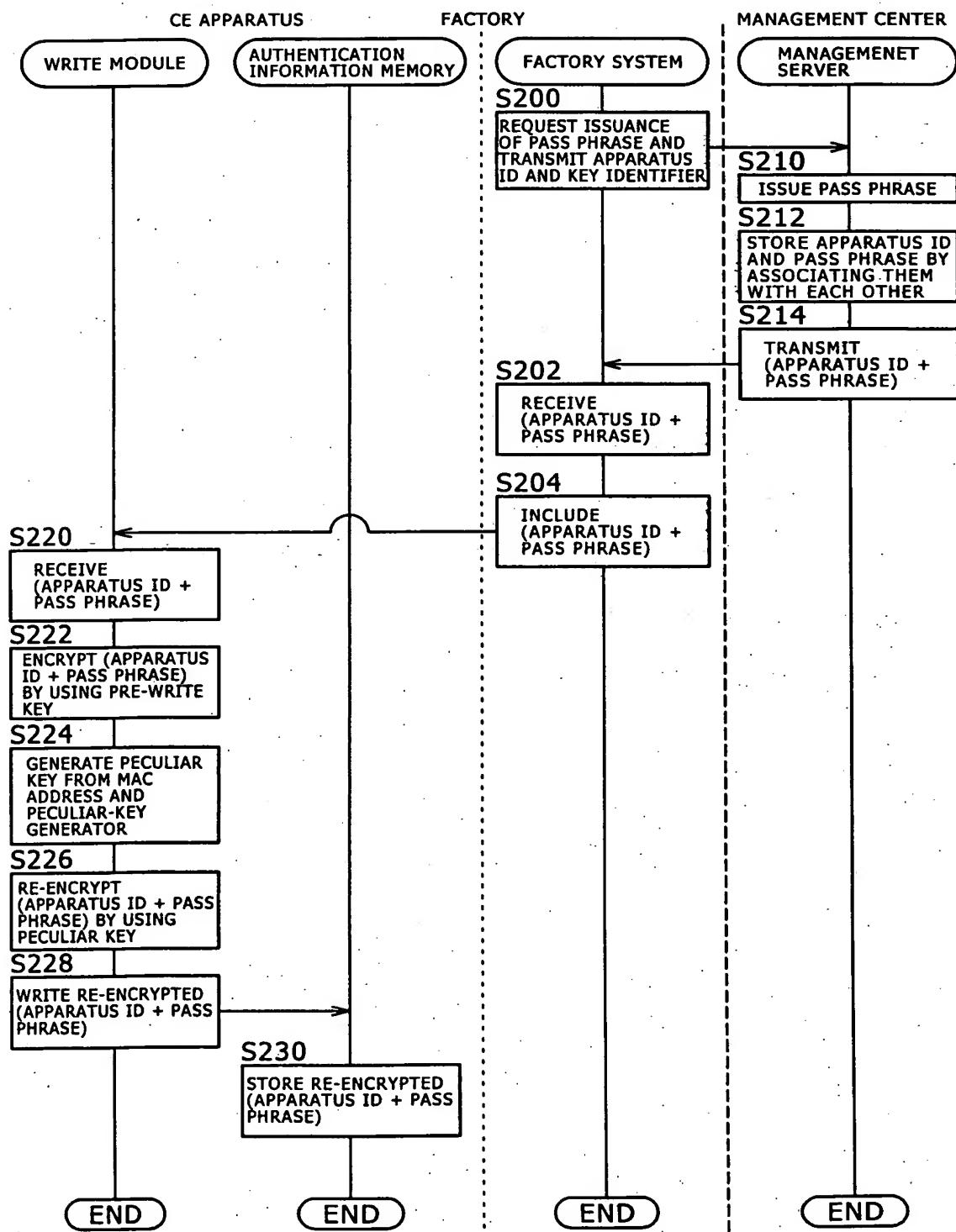
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FIG. 10



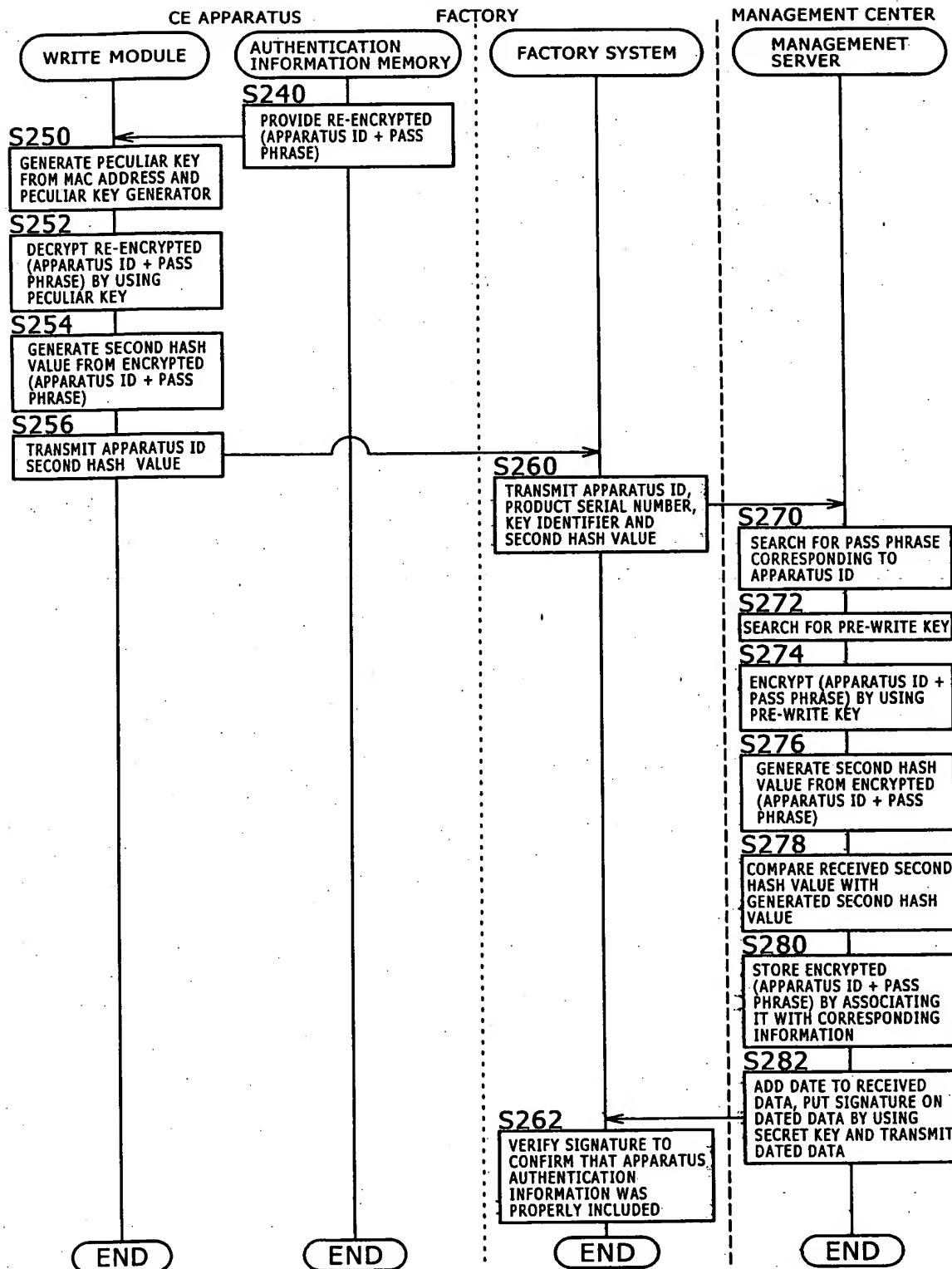
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FIG. 11



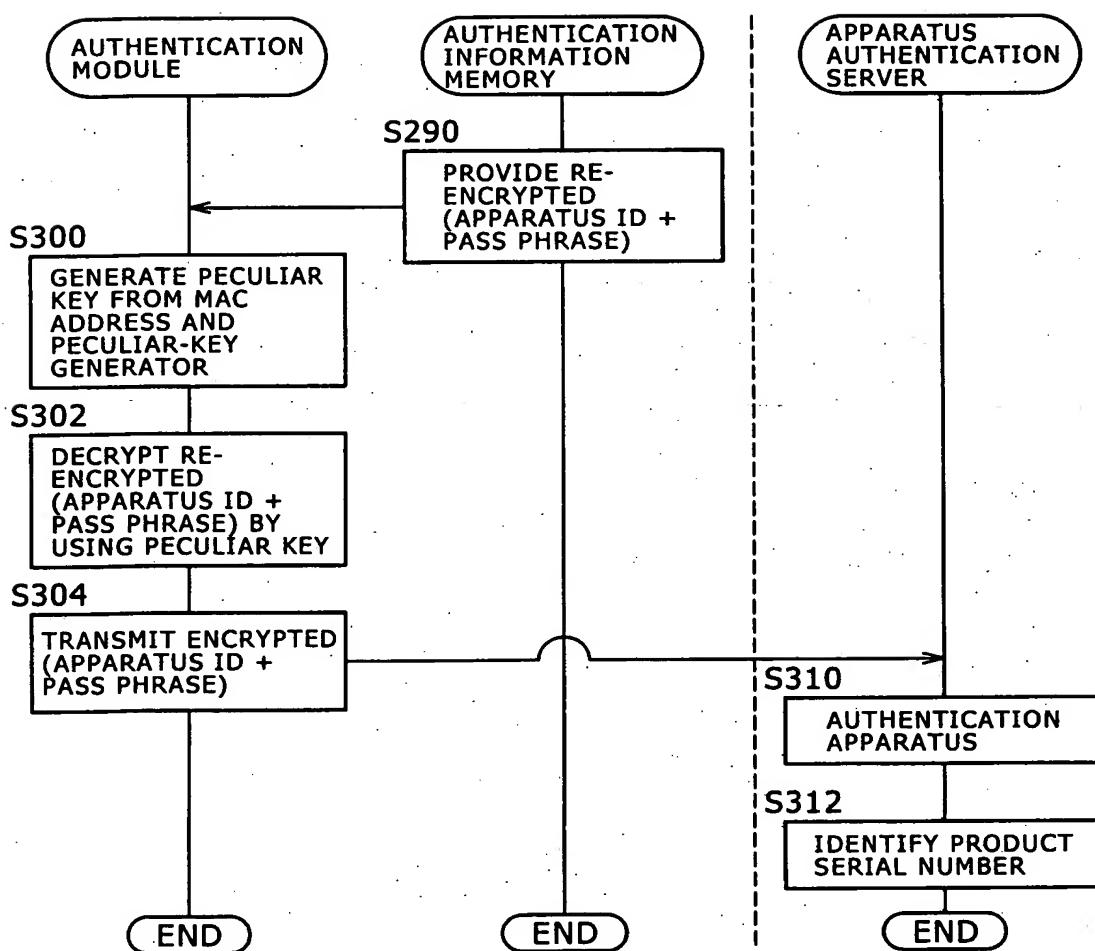
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## FIG. 12



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FIG. 13



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## FIG. 14

## AUTHENTICATION INFORMATION MANAGEMENT SERVER

KEY IDENTIFIER 1	PRE-WRITE KEY 1
KEY IDENTIFIER 2	PRE-WRITE KEY 2
KEY IDENTIFIER 3	PRE-WRITE KEY 3
-----	-----

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APPARATUS ID 1	PASS PHRASE 1
APPARATUS ID 2	PASS PHRASE 2
APPARATUS ID 3	PASS PHRASE 3
-----	-----

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APPARATUS ID 1	ENCRYPTED (APPARATUS ID 1 + PASS PHRASE 1)	PRODUCT SERIAL 1	KEY IDENTIFIER 1
APPARATUS ID 2	ENCRYPTED (APPARATUS ID 2 + PASS PHRASE 2)	PRODUCT SERIAL 2	KEY IDENTIFIER 2
APPARATUS ID 3	ENCRYPTED (APPARATUS ID 3 + PASS PHRASE 3)	PRODUCT SERIAL 3	KEY IDENTIFIER 3
-----	-----	-----	-----

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FIG. 15

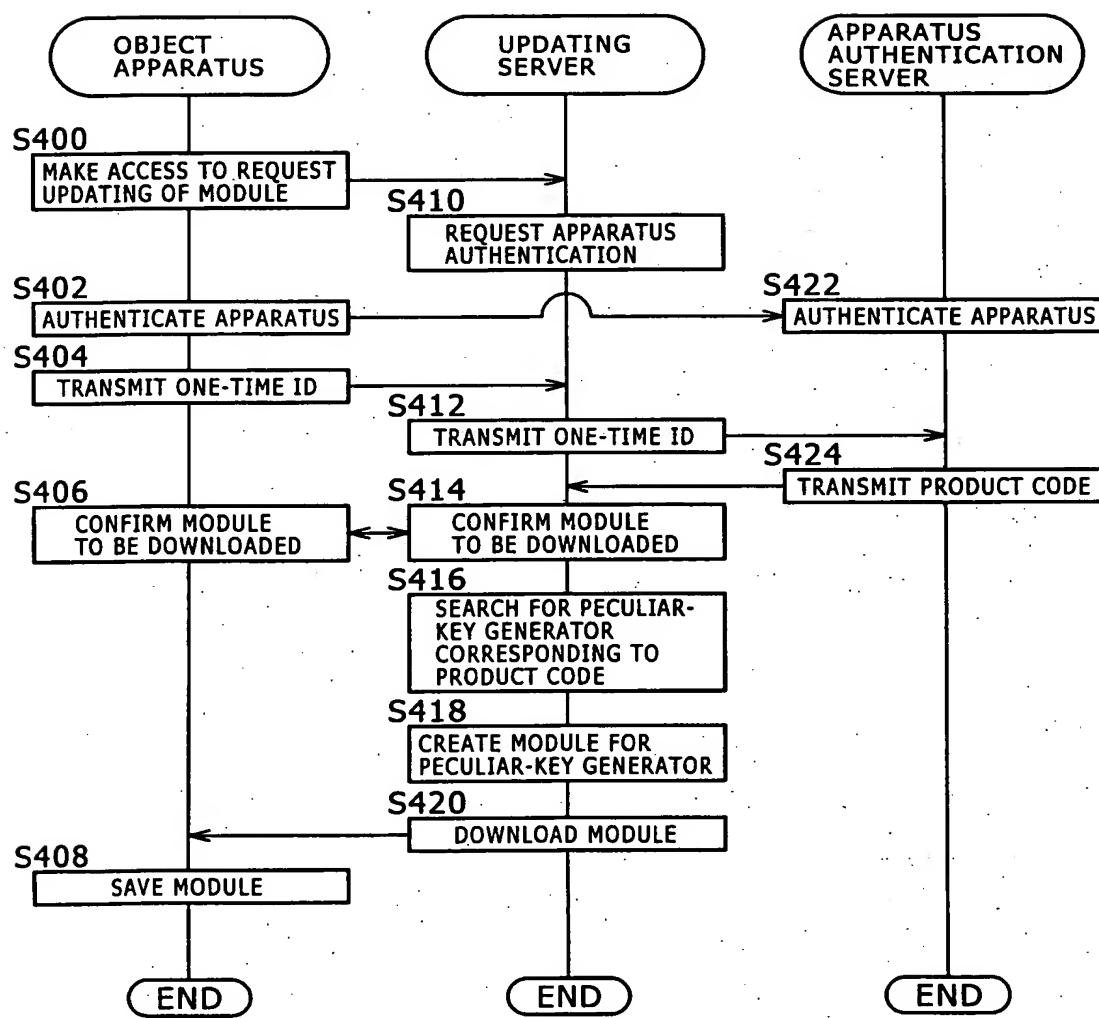
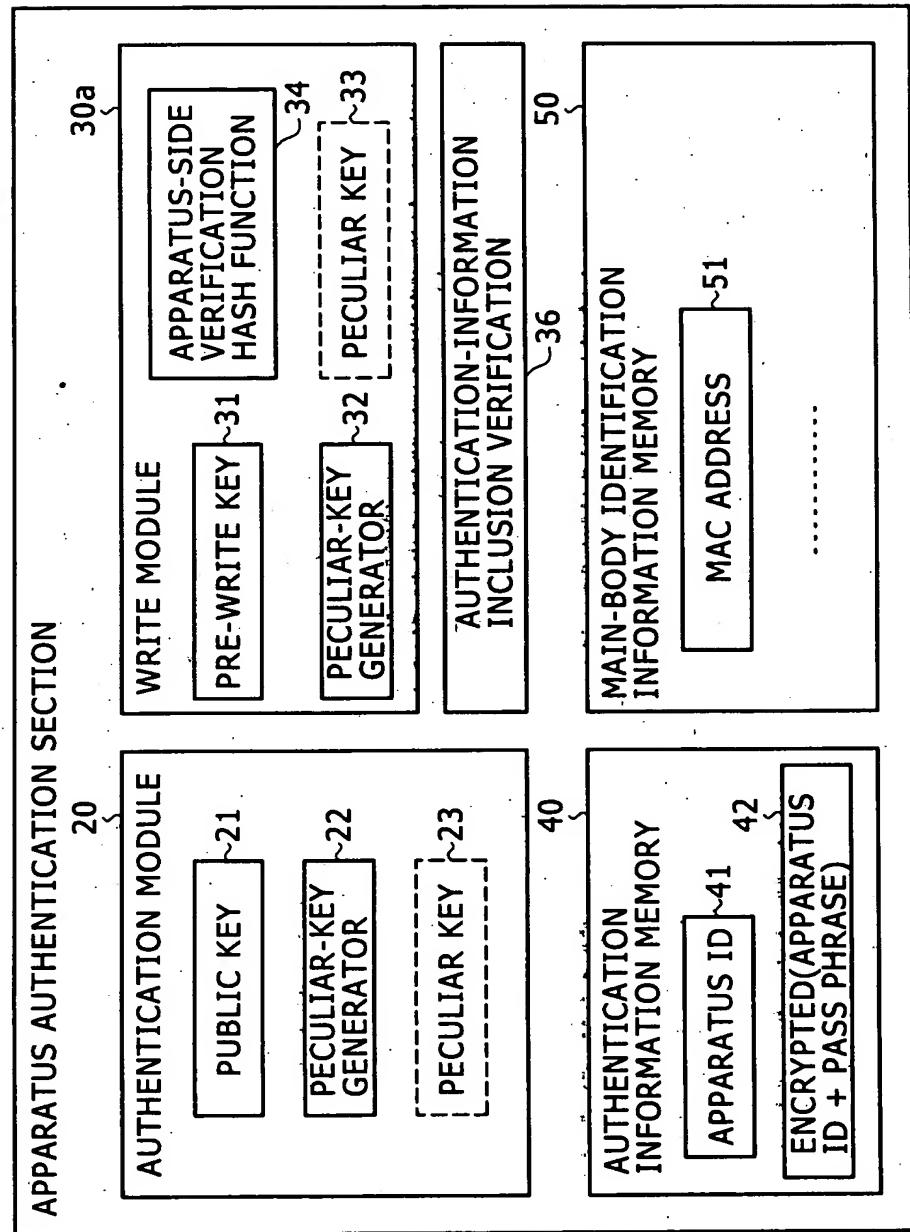


FIG. 16

99a

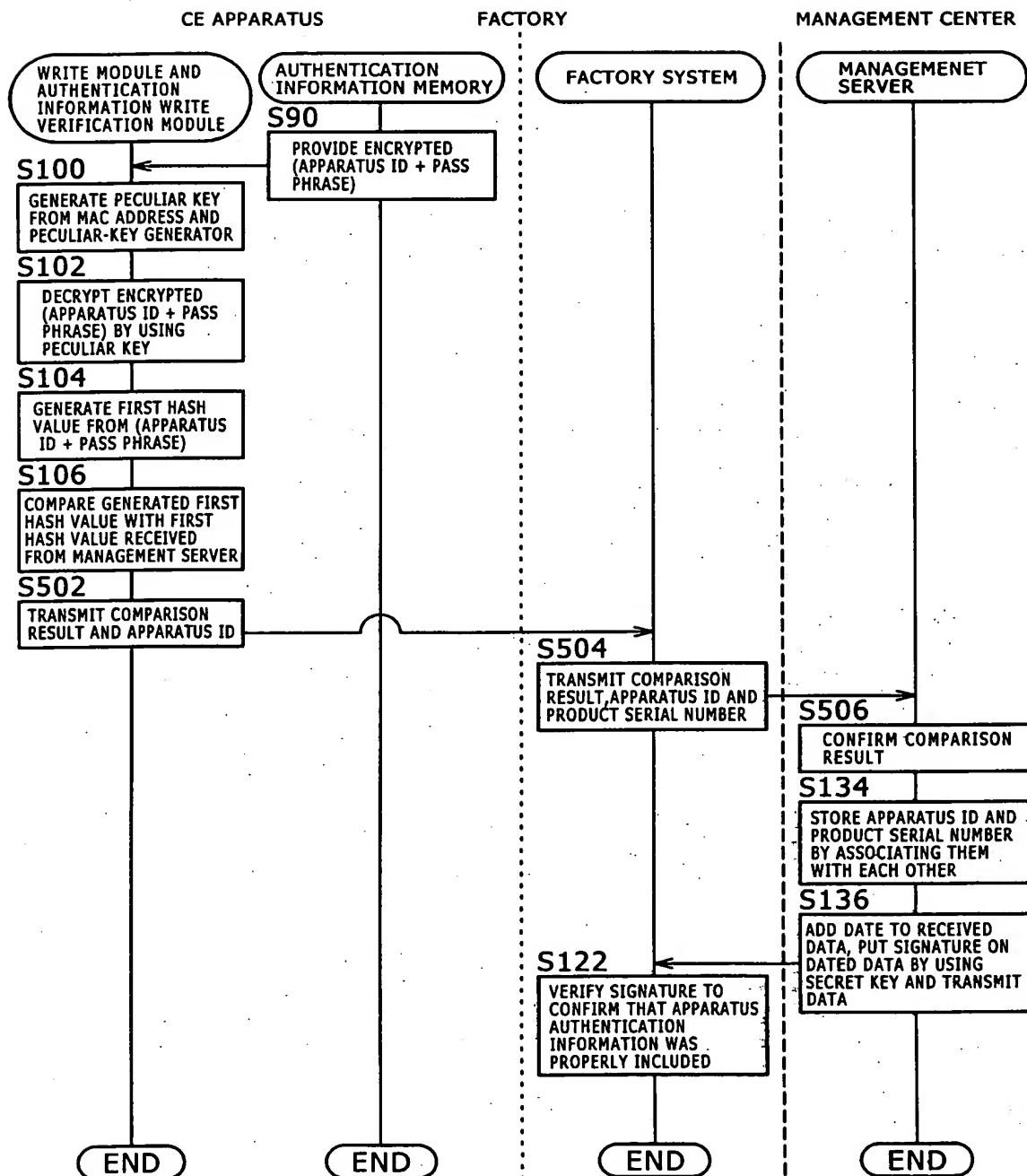


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## FIG. 17



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FIG. 18

